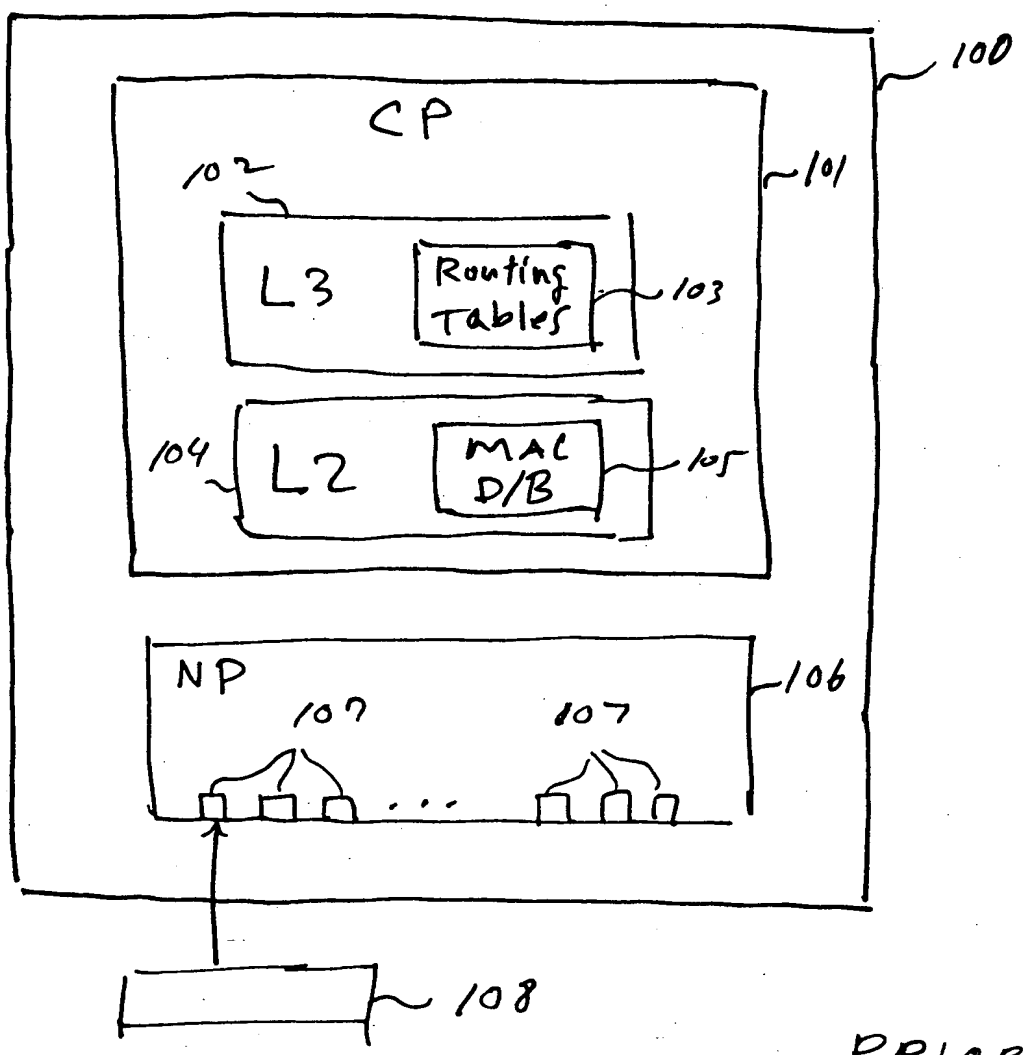

PRIOR ART

FIG. 1

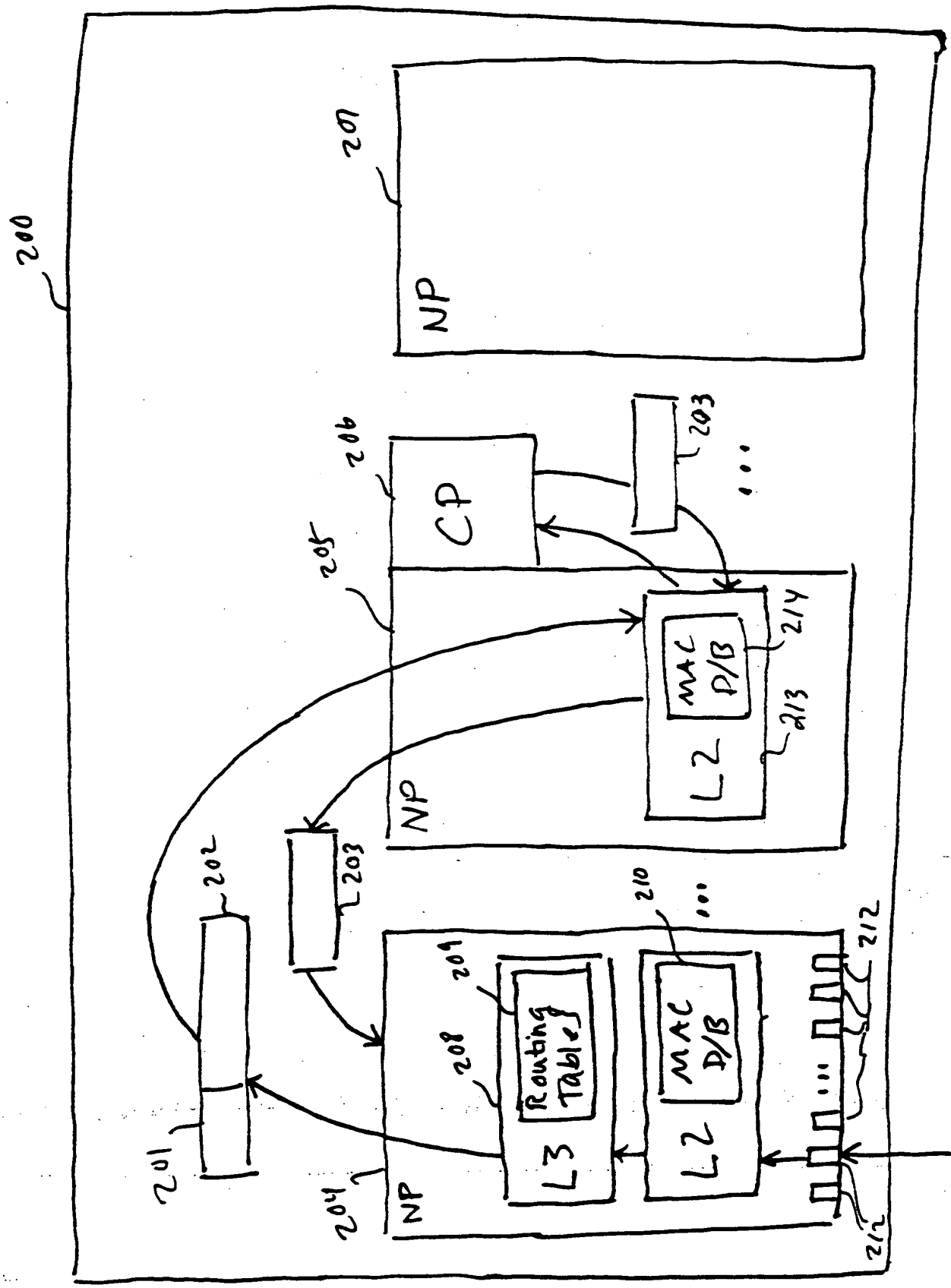
200
201
202
203
204
205
206
207
208
210
212
213
214
NP
CP
L3
L2
Routing Table
MAC D/B

FIG. 2

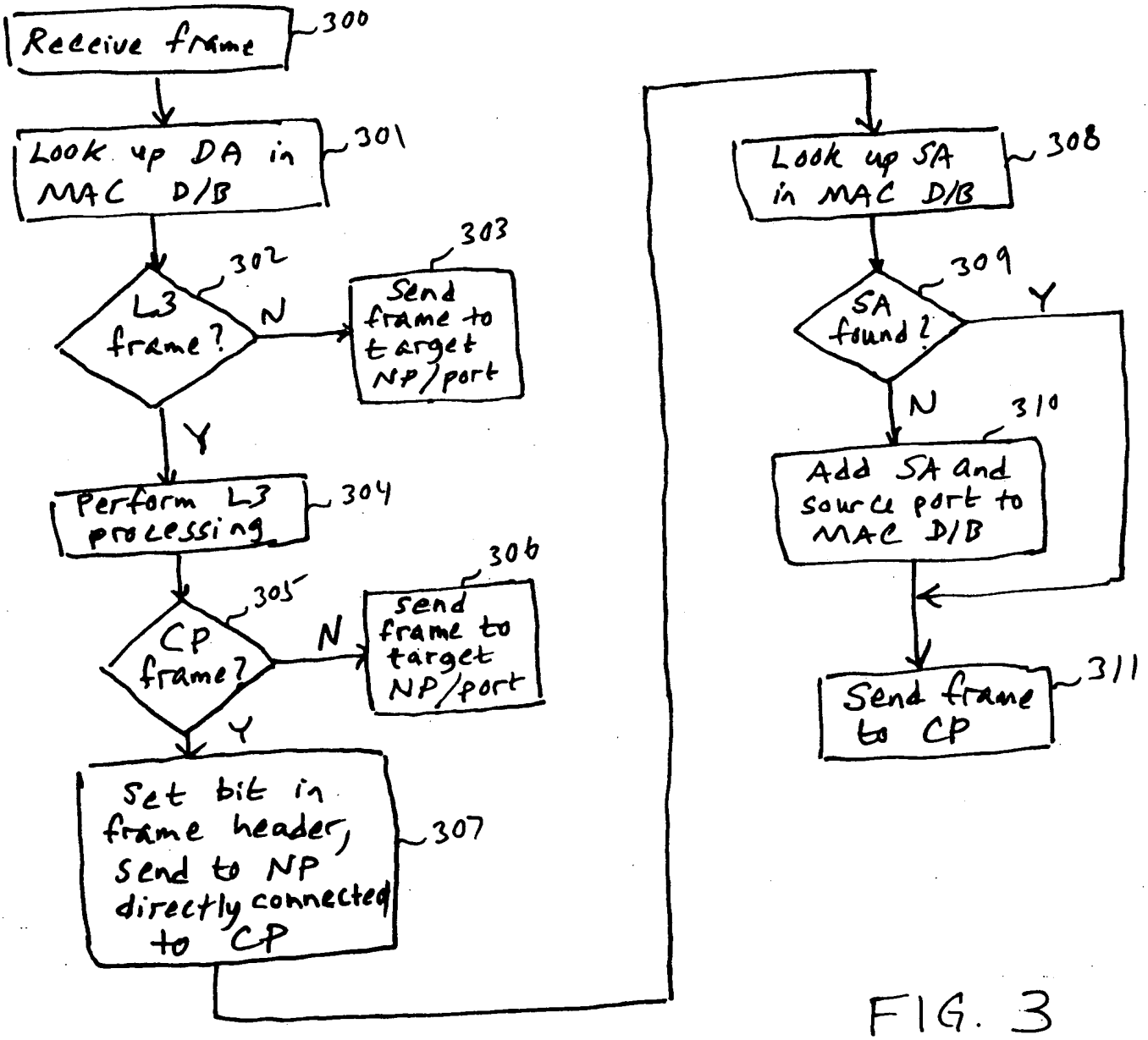
Receive frame
300
Look up DA in MAC D/B
301
L3 frame?
302
N
Send frame to target NP/port
303
Y
Perform L3 processing
304
CP frame?
305
N
Send frame to target NP/port
306
Y
Set bit in frame header, send to NP directly connected to CP
307
Look up SA in MAC D/B
308
SA found?
309
Y
N
Add SA and source port to MAC D/B
310
Send frame to CP
311

FIG. 3

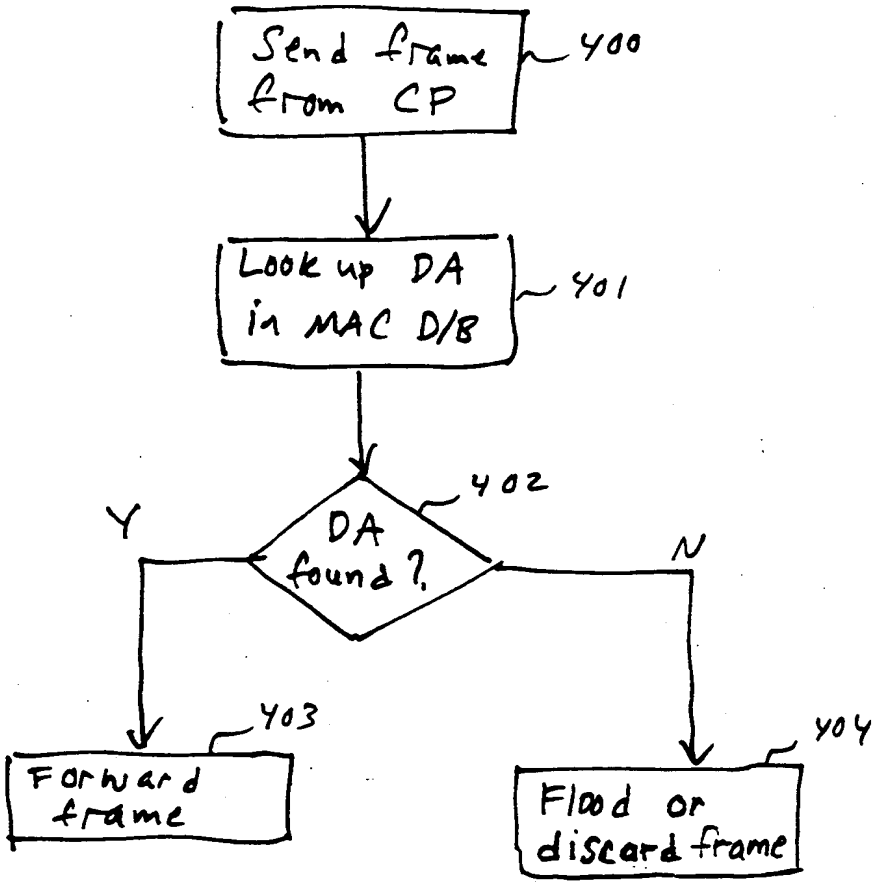
Send frame from CP
400
Look up DA in MAC D/B
401
DA found?
402
Y
N
Forward frame
403
Flood or discard frame
404

FIG. 4

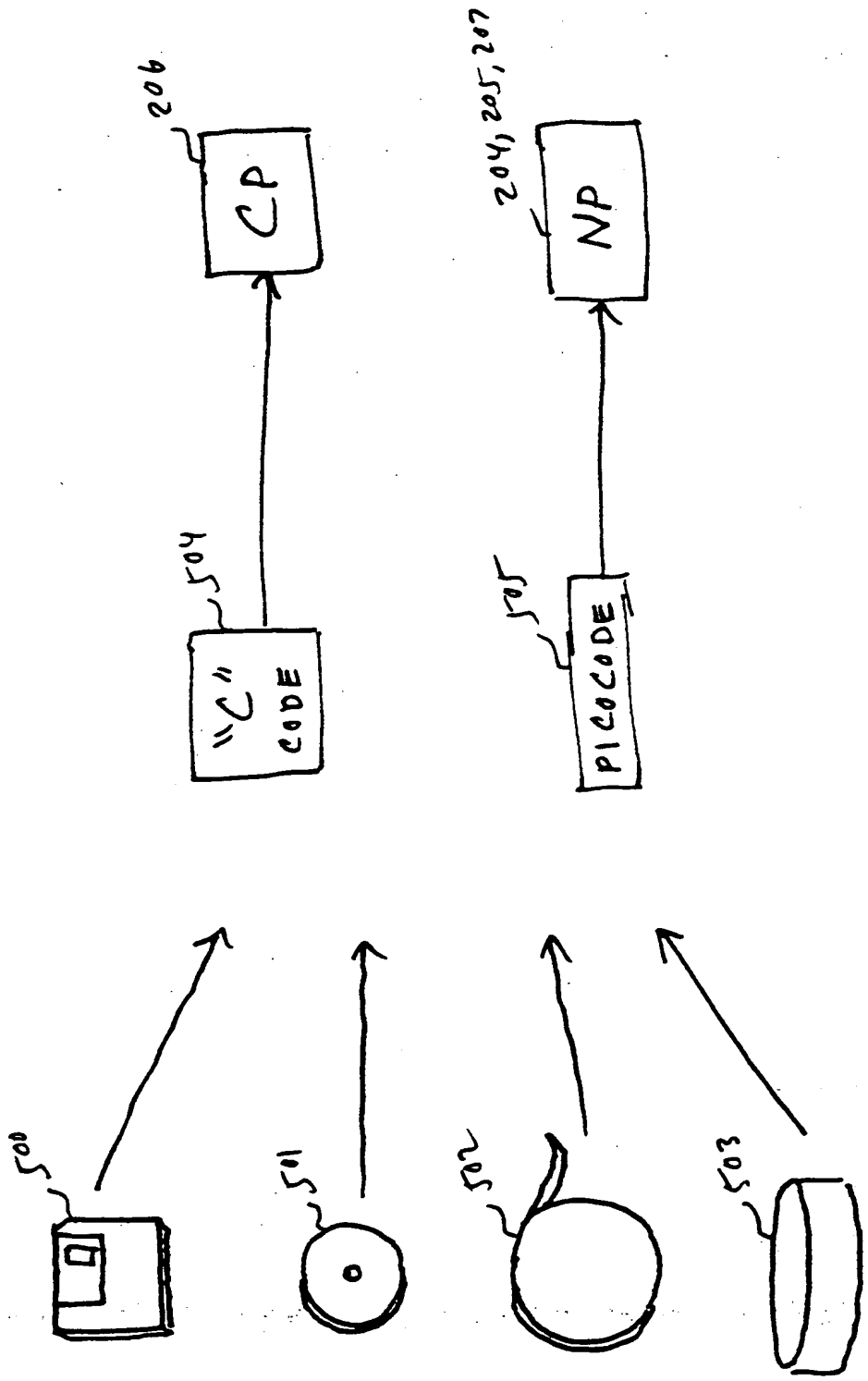

FIG. 5